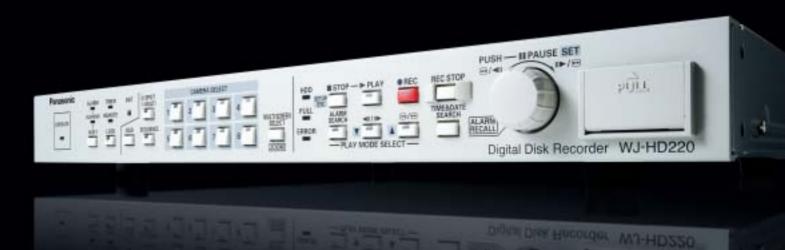
Panasonic ideas for life

Digital Disk Recorders WJ-HD220 Series

WJ-HD220/32 (320GB HDD) WJ-HD220/16 (160GB HDD)



For up to eight cameras, with up to 320GB of storage, Ethernet compatible.



A Wide Variety of Basic Features, Plus Smoother Control from Your PC.

High image guality with minimal degradation no matter how many times you record and play back. No need to change and store tapes, so costs are lower. Quick retrieval of exactly the scenes you want. Plus, full-featured surveillance capability. This advanced hard disk storage system makes recording simple, and easy.





Stores up to about three (3) years of continuous input from up to eight cameras (NORMAL 720H x 240V Mode, Normal Recording Mode, 0.1 FPS)

The WJ-HD220/32 comes with a 320GB hard disk as standard equipment. That's enough storage for up to about three (3) years (1,080 days) of continuous image data input* from eight cameras. Once installed, addressing is automatic.

No additional operations are required.

The WJ-HD220/16 comes with a 160GB hard disk as standard equipment, with the option of adding

a second 160GB disk. *See the DISK DATA REFERENCE CHART at the foot of this page.

Twice as long in SIF Mode

The WJ-HD220 Series also support SIF (352H x 240V) Mode, which reduce image data volume by half, thus doubling the number of days / hours of data that the hard

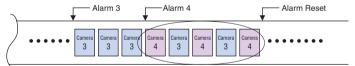
Cache captures images before sensor signals movement

Pre-Alarm Screen

This feature allows you to view images from up to five seconds before alarm signals are received from external sensors or motion detectors.



When multiple alarms are received, images from all alarmed cameras are captured.



Time-lapse Images

Bivala : 700H v 040V

This feature allows you to pre-set each camera to capture images at pre-determined intervals



Live Monitorina

Coaxial cabling supports direct control of cameras

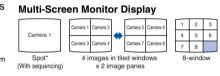
Connecting the WJ-HD220 Series directly to Panasonic PTZ cameras through channels 1 to 4 allows direct control of cameras with the System Controllers WV-CU650 or WV-CU360C (optional).



Choose Multi-screen or Spot Monitor / or Both

On the back of the WJ-HD220 Series you will find two monitor output connectors, one for a Spot Monitor and one for a Multi-screen Monitor. The

Multi-Screen Monitor allows you to view images from several cameras at once. *Independent Spot and Multi Monitor outputs allow monitoring of images from individual cameras







llavback

Instantly retrieve the scenes you want to see

Direct (Time & Date) Search

Enter year, month, day and time. The system plays back the closest image to the date and time you specify

04-05-07 20:30:00 TO SEARCH, PUSH PLAY KEY

Display list of times when alarm signal was received. Just click on the one you want to play back

P	LARM R	ECALL	YEAR	04
NO.	DATE	TIME	A	LM
2000	06-14	20:30	:00	T1
1999	06-14	15:30	:12	Т3
1998	06-14	12:15	:04	Т4
1997	06-14	12:15	:02	V8
1996	06-14	10:07	:05	V2
1995	06-14	10:07	:04	T2
1994	06-14	10:06	:55	Т6
1993	06-14	09:58	:32	V5
(TOTA	L 200	OEVENT	S)	
TO S	EARCH	PUSH T	&D KE	Y

Easy back-up with a VCR

The front panel is equipped with a video output connector. To copy images stored in the WJ-HD220 Series, hook up a VCR, video camera or printer.



(Hours)

DISK DATA REFERENCE CHART NTSC Color Video Signal, 320GB, Audio Signal: Off NORMAL Mode

г.	AGIS . / ZUI I .	X 240 V			NOTIVIAL WICKE											
R	ecording	Hours	48	72	96	120	180	240	480	960	1,440	2,160	4,320	6,480	8,640	25,920
M	ode	(Days)	(2)	(3)	(4)	(5)	(7.5)	(10)	(20)	(40)	(60)	(90)	(180)	(270)	(360)	(1,080)
3	Extended	FPS	-	-	30.0	-	15.0	10.0	6.0	3.0	-	-	0.5	-	-	0.1
0	Normal	FPS	-	30.0	-	-	-	10.0	5.0	-	-	1.0	0.5	-	-	0.1
o	Fine	FPS	-	30.0	-	15.0	10.0	7.5	3.0	2.0	-	1.0	0.5	-	0.1	-
Ш	Super Fine	FPS	30.0	-	-	15.0	10.0	7.5	3.0	-	1.0	-	-	-	0.1	-
													(EDS ·	Frame	Par S	acond'

Pix	els : 352H :	x 240V					SIF	Mod	е							
	ecording ode	Hours (Days)	120 (5)	180 (7.5)	240 (10)	480 (20)	960 (40)	1,440 (60)	2,160 (90)	,	.,	- /		-,	51,840 (2,160)	/
z	Extended	FPS	-	30.0	15.0	10.0	6.0	3.0	-	1.0	1	0.5	-	-	-	0.1
0	Normal	FPS	-	-	15.0	10.0	5.0	3.0	2.0	1.0	-	0.5	-	-	0.1	-
o	Fine	FPS	30.0	-	15.0	7.5	-	3.0	2.0	1.0	-	0.5	-	0.1	-	-
ш	Super Fine	FPS	30.0	-	15.0	7.5	-	2.0	-	-	0.5	-	0.1	_	-	_
													(FPS:	Frame	Per S	econd)

Pixels: 720H x 240V **NORMAL Mode** Capture Rate FPS 30.0 15.0 10.0 7.5 6.0 5.0 3.0 2.0 1.0 0.5 0.1 Extended Hours 105 210 310 420 520 630 1,050 1,580 3,160 6,320 31,640 Hours 87 175 260 350 430 520 870 1,310 2,630 5,270 26,37

ы	xeis: 352H)	X 240V			•		oue						
C	apture Rate	FPS	30.0	15.0	10.0	7.5	6.0	5.0	3.0	2.0	1.0	0.5	0.1
z	Extended	Hours	210	420	630	840	1,050	1,260	2,100	3,160	6,320	12,650	63,290
0	Normal	Hours	175	350	520	700	870	1,050	1,750	2,630	5,270	10,540	52,740
	Fine	Hours	155	310	470	630	790	940	1,580	2,370	4,740	9,480	47,410
Ш	Super Fine	Hours	125	250	370	500	630	750	1,260	1,890	3,790	7,580	37,900

Super Fine Hours 63 | 125 | 185 | 250 | 310 | 370 | 630 | 940 | 1,890 | 3,790 | 18,950

Hours 79 | 155 | 230 | 310 | 390 | 470 | 790 | 1.180 | 2.370 | 4.740 | 23.700

(above figures are approximately, actual recording time may differ.)

The WJ-HD220 Series are equipped with a 10Base-T/100Base-TX interface as standard equipment, allowing remote control from a Microsoft® Internet Explorer browser via the Internet, an LAN or WAN.



Standard Network Features

- Live Monitoring
- Recording
- Playback recorded image
- Camera Control
- Time & Date / List Search
- Image storage on a PC
- Alarm notification
- Setup

Embedded date and time stamp display

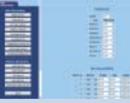
Embedding the date and time in the JPEG image enhances reliability. When used as evidence, it strengthens criminal cases

Setup is Simple

Just click on the setup menu button and the menu opens. The menu makes it easy to select the WJ-HD220 Series and network settings you need.

Alarm List Search Feature







(THE) [DIRECT

FTP Viewer Software WV-AS20 (optional)

Installation of the optional WV-AS20 software allows you to download image data stored in the WJ-HD220 Series.

- Up to 10 WJ-HD220 Series Digital Disk Recorders can be registered.
- Images can be automatically downloaded at pre-set times.
- The zoom feature enlarges images up to 5x.



Loaded with Handy Surveillance Features

Multi-language Capability

The OSD Setup, installation menus and HTML can be displayed in seven languages: English, German, French, Italian, Spanish, Russian*, and Chinese*. *Russian and Chinese in HTML only

Simultaneous Recording, Playback, Live or Network

Recording continues during playback, live monitoring, and network operations.

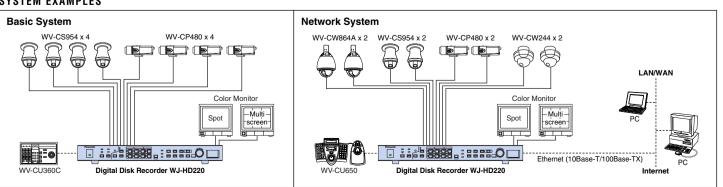
Electronic Zoom

Both played back and live images can be zoomed 2x or 4x* to examine details. *2x only in SIF Mode

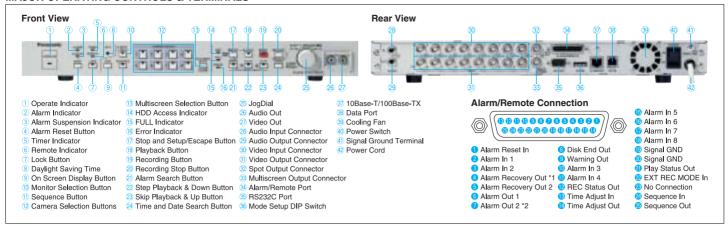
Motion Detector Feature

Sensor detects movement in the area under surveillance and automatically displays

SYSTEM EXAMPLES



MAJOR OPERATING CONTROLS & TERMINALS



SPECIFICATIONS

General	
Power Source Required	120 V AC, 60 Hz
Power Consumption	45 W
Ambient Operating Temperature	+5 °C - +45 °C (41 °F - 113 °F)
Ambient Operating Humidity	Less than 85 %
Dimensions	420 mm (W) x 44 mm (H) x 350 mm (D) [16-9/16" (W) x 3-7/16" (H) x 13-3/4" (D)]
Weight	5.2 kg (11.4 lbs.)
Input	
Video Input	1.0 V[p-p]/75 Ω Composite video signal with 75 Ω Automatic Termination / Looping through (x8)
Audio Input	-10 dB 10 kΩ unbalanced, RCA standard jack
Image Process	
Compression System	JPEG
Pixel Rate	Normal; 720H x 240V (Effective pixels 672H x 224V)
	SIF; 352H x 240V
Refresh Rate	30 FPS maximum
Output	
Video Output	1.0 V[p-p]/75 Ω Composite video signal/Looping through (x8)
Video Output Front Panel	1.0 V[p-p]/75 Ω Composite video signal (x1)
Audio Output	-10 dB 600 Ω unbalanced, RCA standard jack (x1)
Audio Output Front Panel	-10 dB 600 Ω unbalanced, RCA standard jack (x1)
Spot Monitor Output	1.0 V[p-p]/75 Ω Composite video signal (x1)
Multiscreen Monitor Output	1.0 V[p-p]/75 Ω Composite video signal (x1)
Control Port	
Alarm/Remote Port	25-pin Full Pitch D-sub connector (x1)
	Alarm Input 1-8, Alarm Reset Input, EXT REC Input, Time Adjust Input, Sequence
	Input: Low-active, Non-voltage N.O. Contact, ≥100 ms
	Alarm Recovery Output 1, Disk End Status Output, Time Adjust Output,
	Warning Output, REC Status Output, Sequence Output: Low-active, Open-collector,
	24 V DC 100 mA max.
	Alarm Output 1, Play Status Output: Low-active, Open-collector,
	12 V DC 100 mA max.
	Alarm Output 2: High-active, 12 V 4.7 kΩ
	Alarm Recovery Output 2: High-active, 12 V DC 220 Ω
RS-485 (PS • Data)	6-conductor modular jack (RJ-11)
RS-232C	9-pin D-sub connector
10/100BASE-TX Port	10Base-T and 100Base-TX, 8-conductor modular jack (RJ-45)
	Protocol Installed: TCP/IP, HTTP, FTP, SMTP, SNMP, DNS, DDNS
	Security: Password-protected
Hard Disk Drive	
Built-in	320GB (160GB x 2), or 160GB x 1

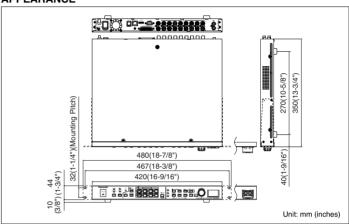
STANDARD PRODUCT CONFIGURATIONS

WJ-HD220/32	WJ-HD220/16
8-channel camera inputs	8-channel camera inputs
• 320GB HDD	• 160GB HDD, and 1 drive bay for optional HDD unit
Built-in Ethernet port	Built-in Ethernet port

Trademarks

Microsoft, Windows and Windows NT are registered trademarks of Microsoft Corporation in the U.S. and/or other countries.

APPEARANCE



OPTIONAL COMPONENTS & ACCESSORIES



Important - Safety Precaution: carefully read the operating instructions and installation manual before using this product.

- Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network.
 All photographs and menus are simulated and shown for the purpose of explanation. Actual images may differ.
- Weights and dimensions are approximate. Specifications are subject to change without notice. This product is subject to export control regulations.

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